

FIGURE 1

1	51	100
N24	---y---r---e---q---e---v---t---h---	---
N27	---y---r---e---q---e---v---t---h---	---
N26	---y---r---e---q---e---v---t---h---	---
N15	---y---r---e---q---e---v---t---h---	---
N17	---y---r---e---q---e---v---t---h---	---
N23	---y---r---e---q---e---v---t---h---	---
N29	---y---r---e---n---h---e---s---h---	---
N13	---y---r---e---n---h---e---s---h---	---
N22	---y---r---e---n---h---e---s---h---	---
T39	---a---k---k---q---a---a---a---h---	---
T44	---a---k---k---q---a---a---a---h---	---
T43	---a---k---k---q---a---a---a---h---	---
T37	---e---t---k---k---v---v---v---h---	---
T40	---t---a---k---k---v---v---v---h---	---
T35	---a---i---f---k---k---n---c---g---y---a---	---
T4	---a---i---f---k---k---n---c---g---y---a---	---
T3	---a---k---k---k---v---v---v---h---	---
T38	---a---n---k---k---v---v---v---h---	---
T42	---a---k---k---n---r---a---a---h---	---
Con	MEPQAMIV WQVRRURT WSLAKHMY VSKAR-MFY RHVESHEK VSSEHPIFG DARLETTYW GLH-GERDHI LQGVSIABR KRYSIQMDP	
101	151	194
N24	---h---r---s---i---a---a---a---h---	---
N27	---h---r---s---i---a---a---a---h---	---
N26	---h---r---s---i---a---a---a---h---	---
N15	---h---r---s---i---a---a---a---h---	---
N17	---h---r---s---i---a---a---a---h---	---
N23	---h---r---s---i---a---a---a---h---	---
N29	---h---r---s---i---a---a---a---h---	---
N13	---h---r---s---i---a---a---a---h---	---
N22	---h---r---s---i---a---a---a---h---	---
T39	---	---
T44	---	---
T43	---g---	---
T37	---	---
T40	---	---
T35	---	---
T4	---	---
T3	---	---
T38	---	---
T42	---	---
Con	DLADLIHLY YEDFESSAI RAILGRVS PRCEYQAGN KVSLOVAL AALTEKKIK PPLPSURULT EIRANPKOKT KGRGS-HIM NGH	

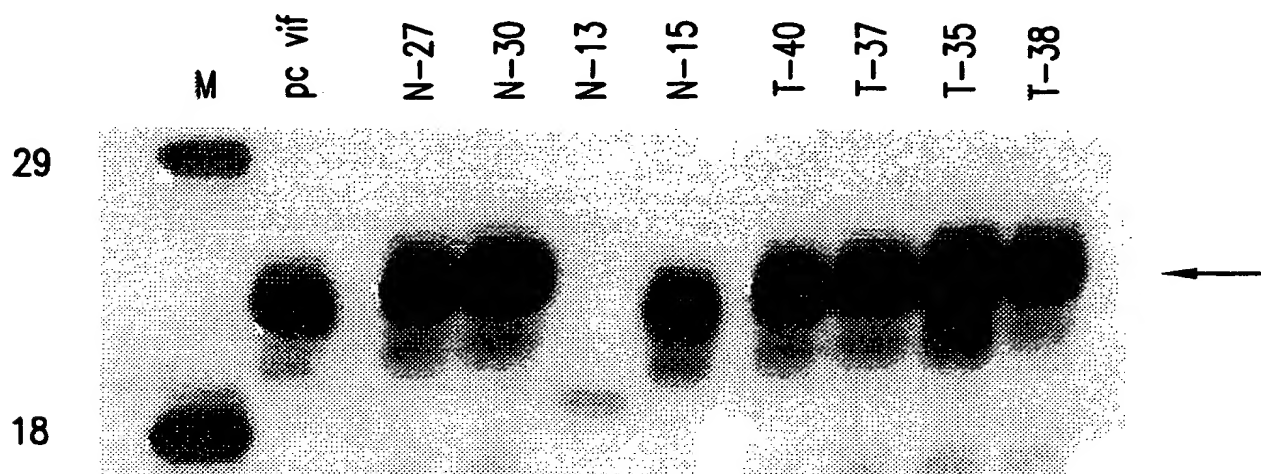


FIGURE 3B

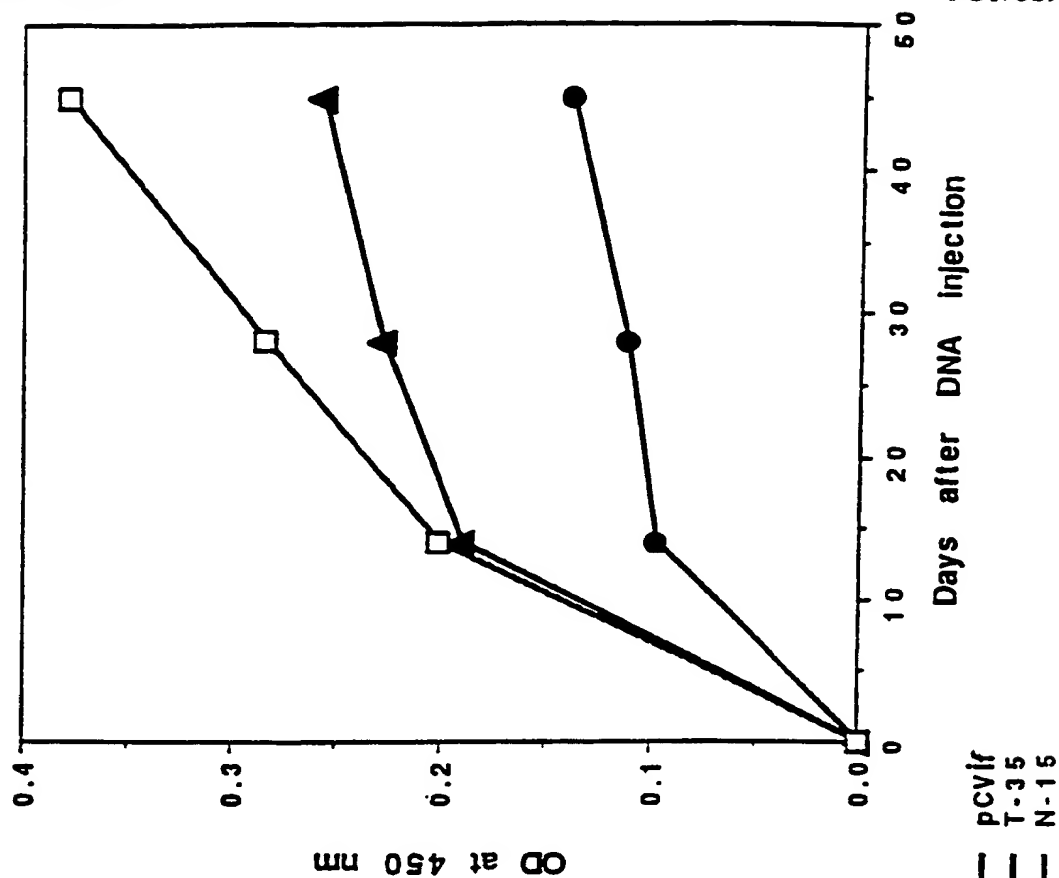
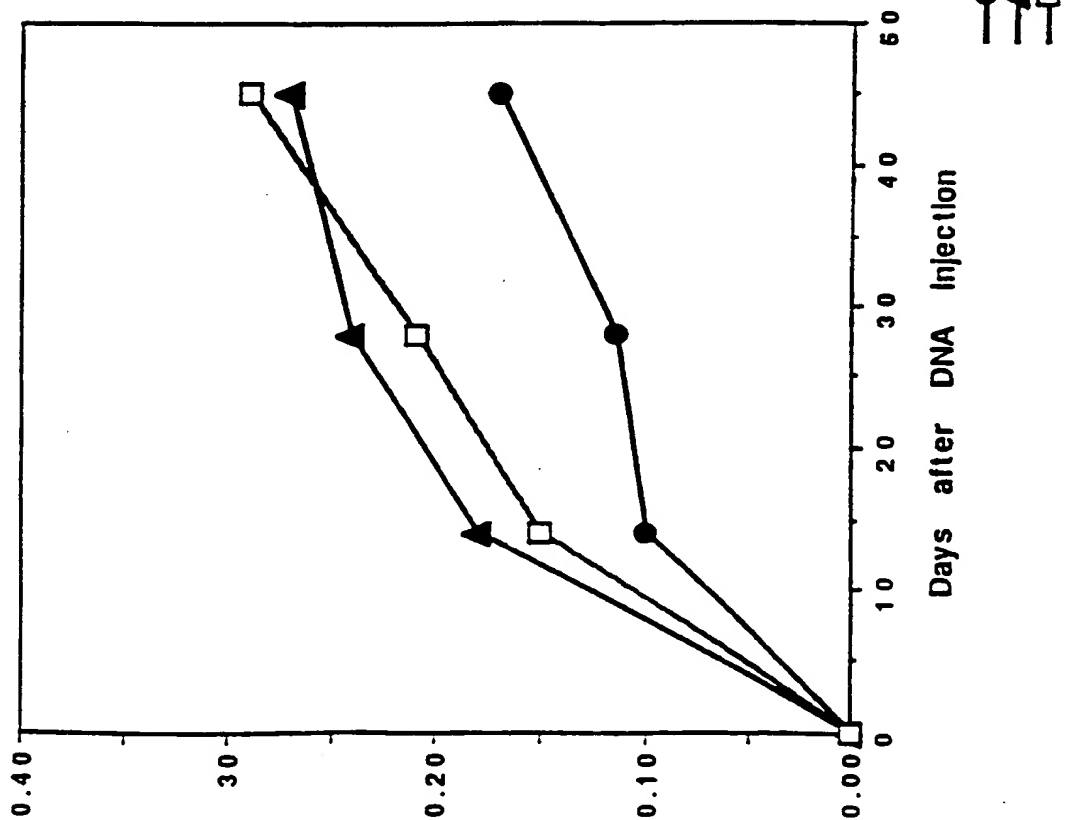


FIGURE 3A



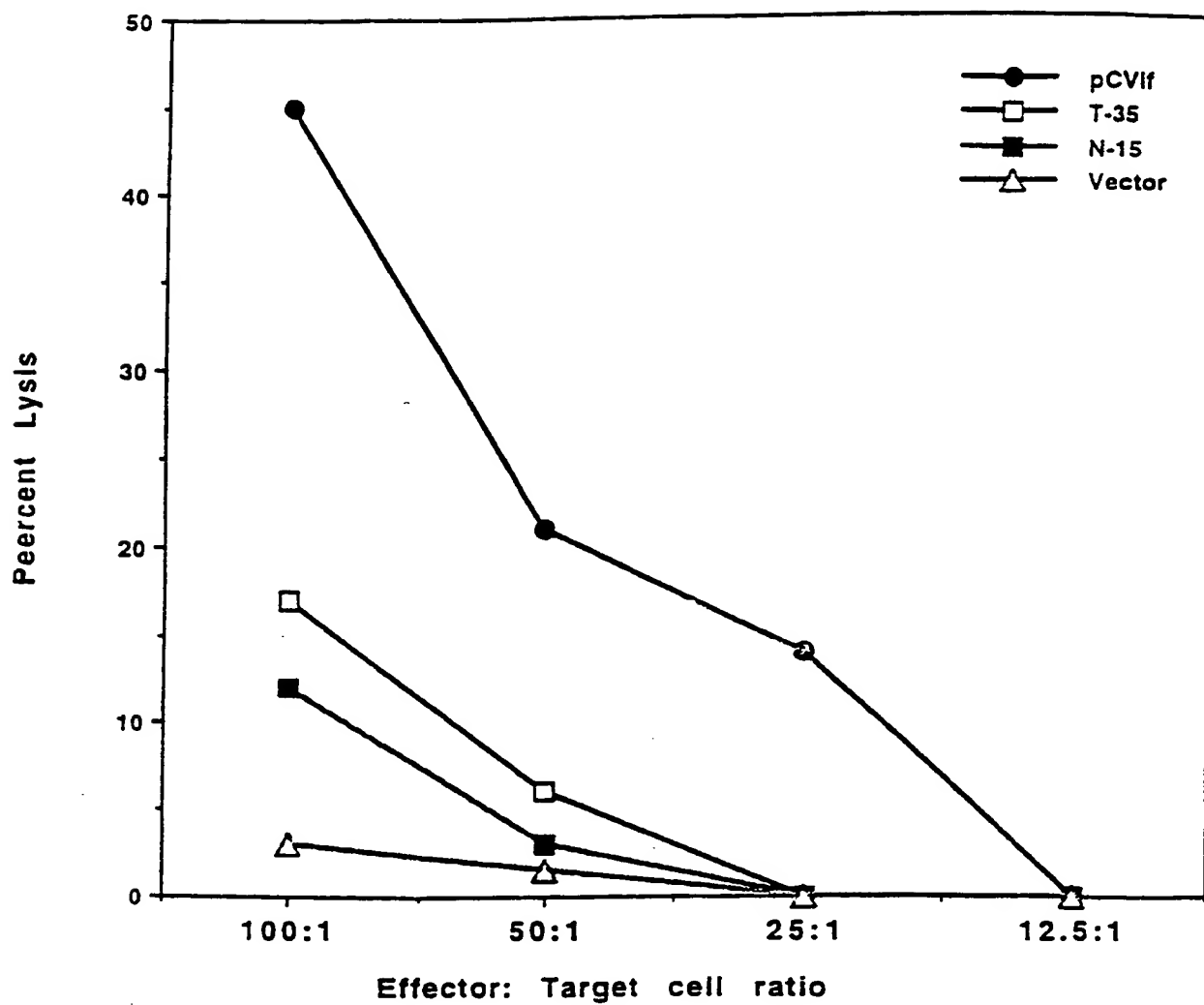


FIGURE 4

FIGURE 5B

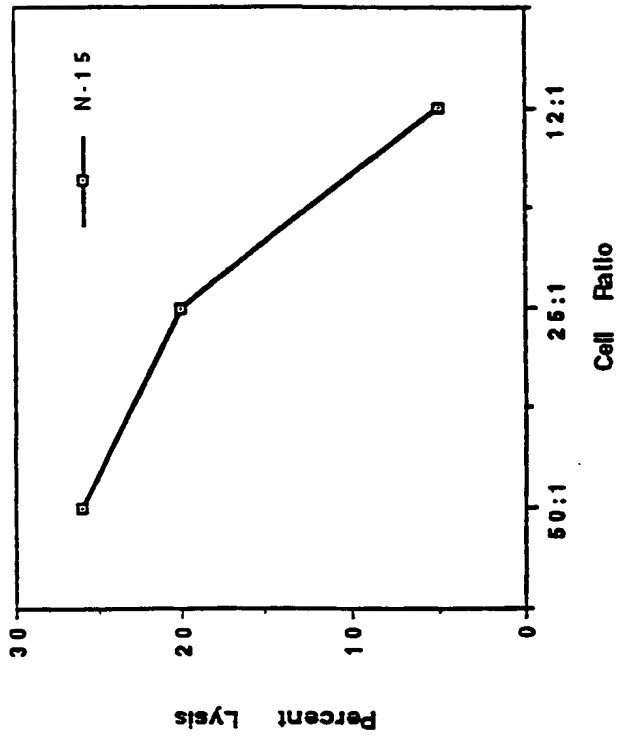


FIGURE 5D

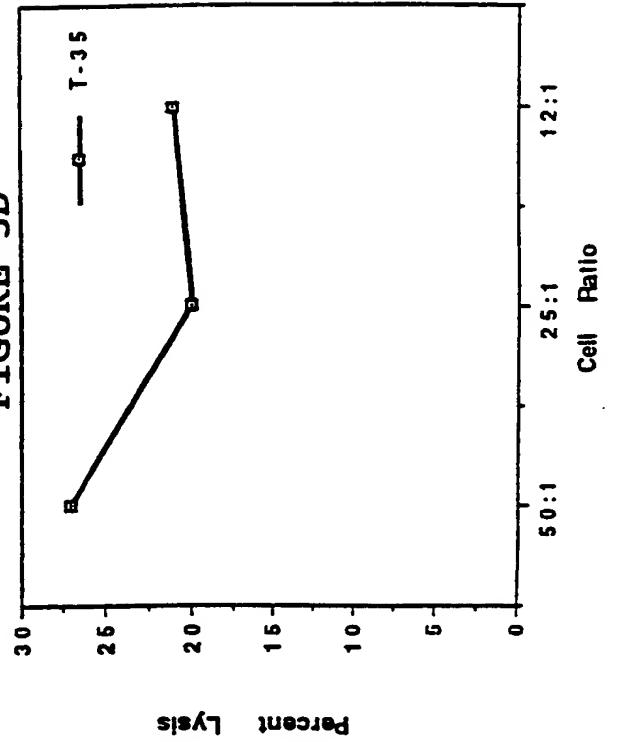


FIGURE 5A

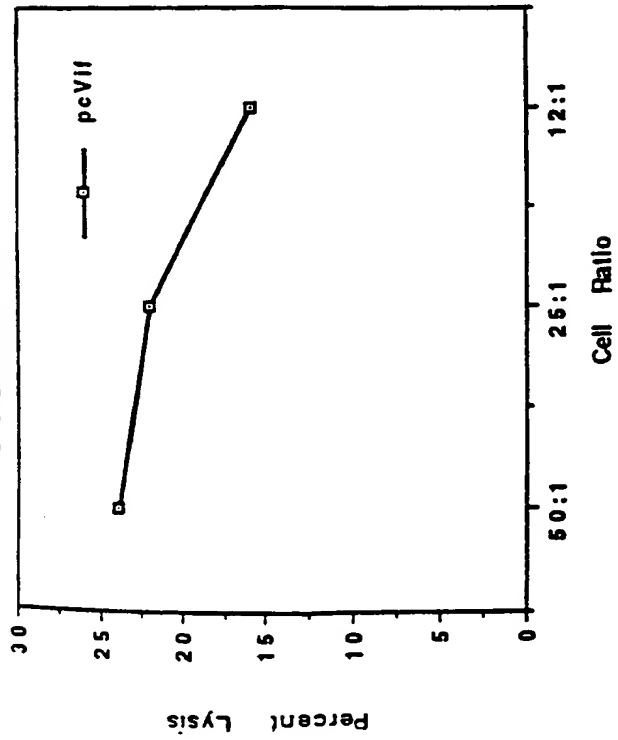
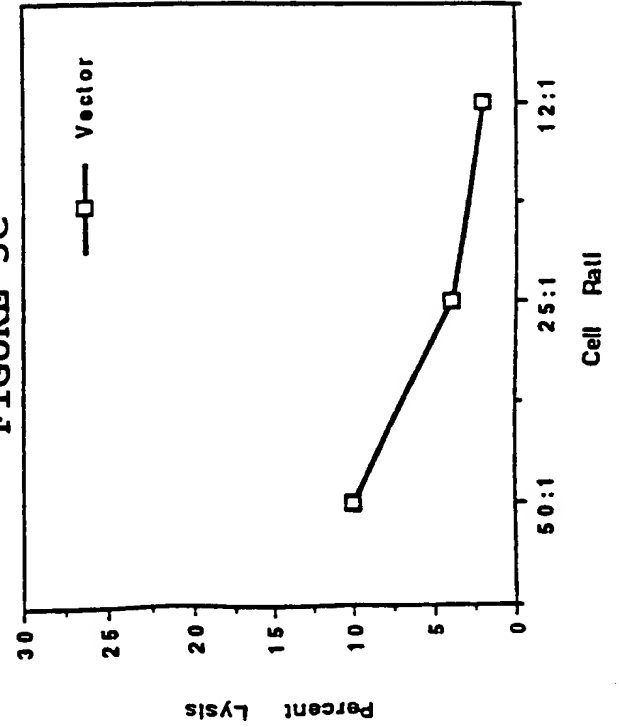


FIGURE 5C



T-cell proliferation

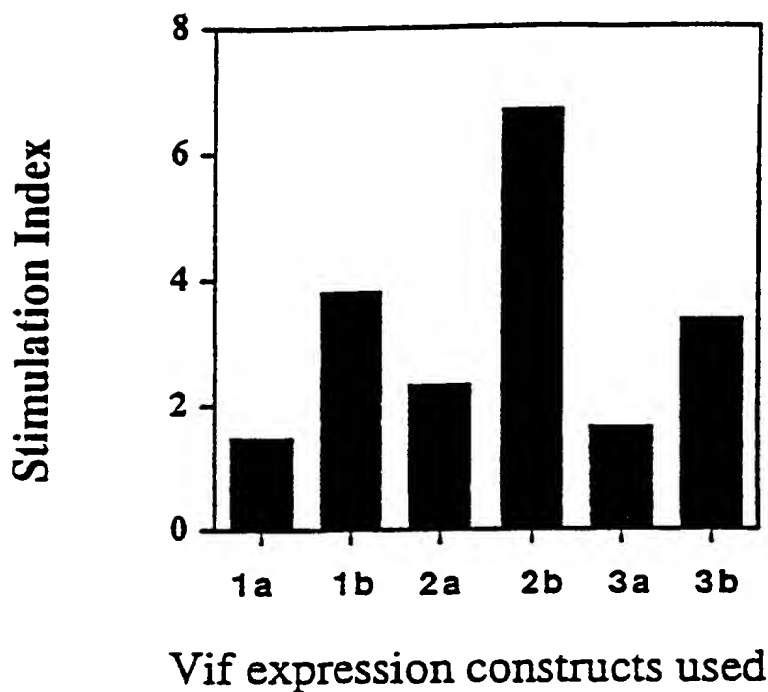


FIGURE 6

FIGURE 7A

1. Vif-N13.pap

MENRWQVIIV WQVDRMRIPT WNSLVKYHMY *SKKAREWYF *HHYQSPHPK
VSSEVHIPLD DARLEITSEW GLHTGERDWH LGQGVSTEWK KRRYSTHVDP
DLADQLIHLY YFDCFSESAI RKAILGHRVS PRCEYRAGHS KVGSLQYLAI
AALITPKKIK PPLASVRKLT EDWANKPQKT KGHGSHIMN GH*

2. Vif-N15.pap

MENRWQVMIV WQVDRMRIPT WNSLVKYHMY RSKKAREWYF RHHYQSPHPR
VSSEVHIPLD DARLEITTYW GLHTGERDWH LGQGVSTEWK KRRYSTQVDP
DLADQLIHLY YFDCFSESAI RKAILGHRVS PRCEYRAGHS KVGSLQYLAI
AALITPKKIK PPLPSVRKLT EDWANKPQKT KGHGSHIMN GH*

3. Vif-N17.pap

MENRWQVMIV WQVDRMRIPT WNSLVKYHMY RSKKAREWYF RHHYQSPHPK
VSSEVHIPLD DARLEITTYW GLHTGERDWH LGQGVSTEWK KRRYSTQVDP
DLADQLIHLY YFDCFSESAI RKAILGHRVS PRCEYRAGHS KVGSLQYLAI
AALITPKKIK PPLPSVRKLT EDWANKPQKT KGHGSHIMN GH*

FIGURE 7B

4. Vif-N22.pap

MENRWQVMIV WQVDRMRIRT WNSLVTYHMY RSQKAREWFN RHHYHSPHPK
 VSSEVHIPLE DARLAIPTFW GLHTGERDWH LGQGVSTEWK KRRYSTQVDP
 DLADQLIHLY YFDCFSESAT RKAILGHRVS PRCEYRAGHS KVGSLQYLAI
 AALITPKKIK PPLPSVRKLT EDWANKPQKT KGHGSHIMN GH*

5. Vif-N24.Pep

MENRWQVMIV WQVDRMRIRT WNSLVKYHMY RSKKAREWFF RHHYQSPHPK
 VSSEVHIPLE DARLVITTYW GLHTGERDWH LGQGVSTEWK KRRYSTHVDP
 DLADQLIHLY YFDCFSESAT RKAILGHRVS PRCEYRAGHS KVGSLQYLAI
 AALITPKKIK PPLASVRKLT EDWANKPQKT KGHGSHIMN GH*

6. Vif-N26.pap

MENRWQVMIV WQVDRMRIRT WNSLVKYHMY RSKKAREWFF RHHYQSPHPK
 VSSEVHIPLE DARLVITTYW GLHTGERDWH LGQGVSTEWK KRRYSTQVDP
 DLADHLIHLY YFDCFSESAT RKAILGHRVS PRCEYRAGHS KVGSLQYLAI
 AALITPKKIK PPLASVRKLT EDWANKPQKT KGHGSHIMN GH*

7. Vif-N27.pap

MENRWQVMIV WQVDRMRIRT WNSLVKYHMY RSKKAREWFF RHHYQSPHPK
 VSSEVHIPLE DARLVITTFW GLHTGERDWH LGQGVSTEWK KRRYSTHVDP
 DLADQLIHLY YFDCFSESAT RKAILGHRVS PRCEYRAGHS KVGSLQYLAI

FIGURE 7C

AALITPKKIK PPLPSVRKLT EDRWNPQKT KGHGSHIMN GH*

8. Vif-N29.pap

MENRWQVMIV WQVDRMRIRT WNSLVKYHMY RSKKAREWFN RHHYHRPHPK
 VSSEVHIPLD DARLEITTFW GLHTGERDWH LGQGVSTIWR KRRYSTQVDP
 DLADQLIHLY YFDCFSESAL RKAILGHRVS PRCEYRAGHS KVGSLQYLAI
 AALITPKKIK PPLPSVRKLT EDRWNPQKT KGHGSHIMN GH*

9. Vif-N30.

MENRWQVMIV WQVDRMRIRT WNSLVKYHMY RSQKEREFN RHHYHSPHPE
 QSSTAHIPLV DGRLEKIAWW SLDTGEQVWH RGHVSTIWR KRRYSTQVDP
 DLVDQLIHLY YFDCFSESAL RKAILGHRVS PRCEYRAGHS KVGSLQYLAI
 AALITPKKIK PPLPSVRKLT EDRWNPQKT KGHGSHIMN GH*

Vif-T3.pap

MENRWQVMIV WQVDRMRIRT WNSLVKHMY VSKKAKKWFY RHHYESPHPK
 VSSTAHIPLG DGRLEKTAWW SLQAGQVWH RGHVSTIWR KRRYSTQVDP
 DLVDQLIHLY YFDCFSESAL RKAILGYRVS PRCEYQAGHN KVGSLQYLAL
 AALITPKKIK PPLPSVRKLT EDRWNPQKT KGHGSHIMN GH*

Vif-T35.pap

FIGURE 7D

MENRWQVMIV WQVDRMRIRA WNSLVKHHIY FSKKAKKWFY RHHYESPHPN
 VSSEVHIPLG DARLVITTPYW GLHGGERDOWY LAQGVSTIEWR KRRYSTQVDP
 DLADQLIHLY YFDCFSESAI RKAILGYRVS PRCEYQAGHN KVGSLQYLAL
 AALITPKKIK PPLPSVRKLT EDWANKPQKT KGHGSHIMN GH*

Vif-T37.pap

MENRWEVMIV WEVDRMRIRA WNSLVKHHMY VSKKAKKWFY RHHYESPHPK
 VSSEVHIPLG DARLVITTPYW GLHAGERDWH LGQGVSTIEWR KRRYSTQVDP
 DLADQLIHLY YFDCFSESAI RKAILGYRVS PRCEYQAGHN KVGSLQYLAL
 AALITPKKIK PPLPSVRKLT EDWANKPQKT KGHGSHIMN GH*

Vif-T38.pap

MENRWQVMIV WQVDRMRIRA WNSLVKHHMY VSKNAKKWFY RHHYDSPHPV
 QSSTAHIPLG DGRLOKIAFW SLDAGERDWH LGQGVSTIEWR KRRYSTQVDP
 DLADQLIHLY YFDCFSESAI RKAILGYRVS PRCEYQAGHN KVGSLQYLAL
 AALITPKKIK PPLPSVRKLT EDWANKPQKT KGHGSHIMN GH*

Vif-T39.pap

MENRWQVMIV WQVDRMRIRA WNSLVKHHMY VSKKAKKWFY RHHYDSPHPK
 VSSEVHIPLG DARLEITTPYW GLHAGERDWH LGQGVSTIEWR KRRYSTHVDP

FIGURE 7E

DLADQLIHLY YFDCFSESAI RKAILGYRVS PRCEYQAGHN KVGSLQYLAL
AALITPKKIK PPLPSVRKLT EDWANKPQKT KGHGSHIMN GH*

Vif-T4.pep

MENRWQVMIV WQVDRMRIRA WNSLVKHHMY VSKKARIWFS RHHYGSPHPK
VCSEVHIPLG DARLVITTYW SLHAGE*DAH VGQVSTIEWR KRRYSTQVDP
DLADQLIHLY YFDCFSESAI RKAILGYRVS PRCEYQAGHN KVGSLQYLAL
AALITPKKIK PPLPSVRKLT EDWANKPQKT KGHGSHIMN GH*

Vif-T40.pep

MENRWQVMIV WQVDRMITRA WNSLVKHHMY VSKKAKKWFY RHHYESPHPK
VSSEVHIPLG DARLVITTYW GLHAGERDWH LGQGVSTIEWR KRRYSTQVDP
DLADQLIHLY YFDCFSESAI RKAILGYRVS PRCEYQAGHN KVGSLQYLAL
AALITPKKIK PPLPSVRKLT EDWANKPQKT KGHGSHIMN GH*

Vif-T42.pep

MENRWQVMIV WQVDRMRIRA WNSLVKHHMY VSKKAKKWFN RHHYDRPHPK
VSSEVHIPLG DARLEITTFW GLHAGERDWH LGQGVSTIEWR KRRYSTQVDP
DLADQLIHLY YFDCFSESAI RKAILGYRVS PRCEYQAGHN KVGSLQYLAL
AALITPKKIK PPLPSVRKLT EDWANKPQKT KGTEGAIQ*

FIGURE 7F

Vif-T43.pap

MENRWQVMIV WQVDRMRIRA WNSLVKHHMF VSKKAKKWFY RHYESPHPK
VSSEVHIPLG DARLEITTFW GLHAGERDWH LGQGVSTEW KRRYSTQVDP
DLADQLIHLY YFGCFSESAT RKAILGYRVS PRCEYQAGHN KVGSLQYLGL
AALITPKKIK PPLPSVRKLT EDWANKPQKT KGHGSHIMN GH*

Vif-T44.pap

MENRWQVMIV WQVDRMRIRA WNSLVKHHMY VSKKAKKWFY RHYESPHPQ
VSSEVHIPLG DARLEITTYW GLHAGERDWH LGQGVSTEW KRRYSTQVDP
DLADQLIHLY YFDCFSESAT RKAILGYRVS PRCEYQAGHN KVGSLQYLAL
AALITPKKIK PPLPSVRKLT EDWANKPQKT KGHGSHIMN GH*

FIGURE 8A

N13 (SEQ ID NO:27)

ATGGAAAACAGATGGCAGGTGATTATTGTGTGGCAGGTAGACAGGATGAGGATTAGAACA
TGGAACAGTTTGTAGTAAAATACCATATGTATTGATCAAAGAAAGCTAGGGAATGGTTTTAT
TGACATCACTATCAAAGTCCTCATCCAAAAGTAAGTTCAGAAGTACACATCCCCTAGAG
GATGCTAGATTGGAAATAACATCATTGTTGGGGTCTGCATACAGGAGAAAGAGACTGGCAT
TTGGGTTCAGGGAGTCTCCATAGAATGGAGGAAAAGGAGATATAGCACACACGTCGACCCT
GATCTAGCAGACCAACTAATTCATCTGTATTATTTTGATTGTTTTTCAGAATCTGCTATA
AGAAAAGCCATATTAGGACACAGAGTTAGTCCTAGGTGTGAATATCGAGCAGGACATAGC
AAGGTAGGATCACTACAGTACTTGGCAATAGCAGCATTAAATAACACCAAAAAAGATAAAG
CCACCTTTGGCGAGTGTTCAGGAACTGACAGAGGATAGATGGAACAAGCCCCAGAAGACC
AAGGGCCACAGAGGGAGCCATACAATGAATGGACACTAG

N15 (SEQ ID NO:28)

ATGGAAAACAGATGGCAGGTGATGATTGTGTGGCAGGTAGACAGGATGAGGATTAGAACA
TGGAACAGTTTGTAGTAAAATACCATATGTATAGATCAAAGAAAGCTAGGGAATGGTTTTAT
AGACATCACTATCAAAGTCCTCATCCAAGAGTAAGTTCAGAAGTACACATCCCCTAGAG
GATGCTAGATTGGAAATAACAACATATTGGGGTCTGCATACAGGAGAAAGAGACTGGCAT
TTGGGTTCAGGGAGTCTCCATAGAATGGAGGAAAAGGAGATATAGCACACAAGTAGACCCT
GATCTAGCAGACCAACTAATTCATCTGTATTATTTTGATTGTTTTTCAGAATCTGCTATA
AGAAAAGCCATATTAGGACACAGAGTTAGTCCTAGGTGTGAATATCGAGCAGGACATAGC
AAGGTAGGATCACTACAGTACTTGGCAATAGCAGCATTAAATAACACCAAAAAAGATAAAG
CCACCTTTGCCGAGTGTTCAGGAACTGACAGAGGATAGATGGAACAAGCCCCAGAAGACC
AAGGGCCACAGAGGGAGCCATACAATGAATGGACACTAG

N17 (SEQ ID NO:29)

ATGGAAAACAGATGGCAGGTGATGATTGTGTGGCAGGTAGACAGGATGAGGATTAGAACA
TGGAACAGTTTGTAGTAAAATACCATATGTATAGATCAAAGAAAGCTAGGGAATGGTTTTAT
AGACATCACTATCAAAGTCCTCATCCAAAAGTAAGTTCAGAAGTACACATCCCCTAGAG
GATGCTAGATTGGAAATAACAACATATTGGGGTCTGCATACAGGAGAAAGAGACTGGCAT
TTGGGTTCAGGGAGTCTCCATAGAATGGAGGAAAAGGAGATATAGCACACAAGTAGACCCT
GATCTAGCAGACCAACTAATTCATCTGTATTATTTTGATTGTTTTTCAGAATCTGCTATA
AGAAAAGCCATATTAGGACACAGAGTTAGTCCTAGGTGTGAATATCGAGCAGGACATAGC
AAGGTAGGATCACTACAGTACTTGGCAATAGCAGCATTAAATAACACCAAAAAAGATAAAG
CCACCTTTGCCGAGTGTTCAGGAACTGACAGAGGATAGATGGAACAAGCCCCAGAAGACC
AAGGGCCACAGAGGGAGCCATACAATGAATGGACACTAG

N22 (SEQ ID NO:30)

ATGGAAAACAGATGGCAGGTGATGATTGTGTGGCAGGTAGACAGGATGAGGATTAGAACA
TGGAACAGTTTGTAGTAAACATACCATATGTATAGATCACAGAAAGCTAGGGAATGGTTTAAT
AGACATCACTATCACAGTCCTCATCCAAAAGTAAGTTCAGAAGTCCACATCCCCTAGAG
GATGCTAGATTGGCAATACCAACATTTTGGGGTCTGCATACAGGAGAAAGAGACTGGCAT
TTGGGTTCAGGGAGTCTCCATAGAATGGAGGAAAAGGAGATATAGCACACAAGTAGACCCT
GATCTAGCAGACCAACTAATTCATCTGTATTATTTTGATTGTTTTTCAGAATCTGCTATA
AGAAAAGCCATATTAGGACACAGAGTTAGTCCTAGGTGTGAATATCGAGCAGGACATAGC
AAGGTAGGATCACTACAGTACTTGGCAATAGCAGCATTAAATAACACCAAAAAAGATAAAG
CCACCTTTGCCGAGTGTTCAGGAACTGACAGAGGATAGATGGAACAAGCCCCAGAAGACC
AAGGGCCACAGAGGGAGCCATACAATGAATGGACACTAG

FIGURE 8B

N23 (SEQ ID NO:31)

ATGGAAAACAGATGGCAGGTGATGATTGTGTGGCAGGTAGACAGGATGAGGATTAGAACA
TGGAACAGTTTAGTAAAATACCATATGTATAGATCAAAGAAAGCTAGGGAATGGTTTTAT
AGACATCACTATCAAAGTCCTCATCCAAAAGTAAGTTCAGAAGTCCACATCCCCTAGAG
GATGCTAGATTGGAAATAACAACATATTGGGGTCTGCATACAGGAGAAAGAGACTGGCAT
TTGGGT CAGGGAGTCTCCATAGAATGGAGGAAAAGGAGATATAGCACACACGTCGACCCT
GATCTCGCAGACCACCTAATTCATCTGTGTTATTTTGATTGTCTTTCAGAATCTGCTATA
AGAAAAGCCATATTAGGACACAGAGTTAGTCCTAGGTGTGAATATCGAGCAGGACATAGC
AAGGTAGGATCACTACAGTACTTGGCAATAGCAGCATTATAACACCAAAAAAGATAAAG
CCACCTTTGCCGAGTGT CAGGAACTGACAGAGGATAGATGGAACAAGCCCCAGAAGACC
AAGGGCCACAGAGGGAGCCATACAATGAATGGACACTAG

N24 (SEQ ID NO:32)

ATGGAAAACAGATGGCAGGTGATGATTGTGTGGCAGGTAGACAGGATGAGGATTAGAACA
TGGAACAGTTTAGTAAAATACCATATGTATAGATCAAAGAAAGCTAGGGAATGGTTTTAT
AGACATCACTATCAAAGTCCTCATCCAAAAGTAAGTTCAGAAGTACACATCCCCTAGAG
GATGCTAGATTGGTAATAACAACATATTGGGGTCTGCATACAGGAGAAAGAGACTGGCAT
TTGGGT CAGGGAGTCTCCATAGAATGGAGGAAAAGGAGATATAGCACACACGTAGACCCT
GATCTAGCAGACCAACTAATTCATCTGTATTATTTTGATTGTTTTTTCAGAATCTGCTATA
AGAAAAGCCATATTAGGACACAGAGTTAGTCCTAGGTGTGAATATCGAGCAGGACATAGC
AAGGTAGGATCACTACAGTACTTGGCAATAGCAGCATTATAACACCAAAAAAGATAAAG
CCACCTTTGGCGAGTGT CAGGAACTGACAGAGGATAGATGGAACAAGCCCCAGAAGACC
AAGGGCCACAGAGGGAGCCATACAATGAATGGACACTAG

N26 (SEQ ID NO:33)

ATGGAAAACAGATGGCAGGTGATGATTGTGTGGCAGGTAGACAGGATGAGGATTAGAACA
TGGAACAGTTTAGTAAAATACCATATGTATAGATCAAAGAAAGCTAGGGAATGGTTTTAT
AGACATCACTATCAAAGTCCTCATCCAAAAGTAAGTTCAGAAGTACACATCCCCTAGAG
GATGCTAGATTGGTAATAACAACATATTGGGGTCTGCATACAGGAGAAAGAGACTGGCAT
TTGGGT CAGGGAGTCTCCATAGAATGGAGGAAAAGGAGATATAGCACACAAGTAGACCCT
GATCTAGCAGACCACCTAATTCATCTGTATTATTTTGATTGTTTTTTCAGAATCTGCTATA
AGAAAAGCCATATTAGGACACAGAGTTAGTCCTAGGTGTGAATATCGAGCAGGACATAGC
AAGGTAGGATCACTACAGTACTTGGCAATAGCAGCATTATAACACCAAAAAAGATAAAG
CCACCTTTGGCGAGTGT CAGGAACTGACAGAGGATAGATGGAACAAGCCCCAGAAGACC
AAGGGCCACAGAGGGAGCCATACAATGAATGGACACTAG

N27 (SEQ ID NO:34)

ATGGAAAACAGATGGCAGGTGATGATTGTGTGGCAGGTAGACAGGATGAGGATTAGAACA
TGGAACAGTTTAGTAAAATACCATATGTATAGATCAAAGAAAGCTAGGGAATGGTTTTAT
AGACATCACTATCAAAGTCCTCATCCAAAAGTAAGTTCAGAAGTACACATCCCCTAGAG
GATGCTAGATTGGTAATAACAACATTTTGGGGTCTGCATACAGGAGAAAGAGACTGGCAT
TTGGGT CAGGGAGTCTCCATAGAATGGAGGAAAAGGAGATATAGCACACACGTAGACCCT
GATCTAGCAGACCAACTAATTCATCTGTATTATTTTGATTGTTTTTTCAGAATCTGCTATA
AGAAAAGCCATATTAGGACACAGAGTTAGTCCTAGGTGTGAATATCGAGCAGGACATAGC
AAGGTAGGATCACTACAGTACTTGGCAATAGCAGCATTATAACACCAAAAAAGATAAAG
CCACCTTTGCCGAGTGT CAGGAACTGACAGAGGATAGATGGAACAAGCCCCAGAAGACC
AAGGGTCACAGAGGGAGCCATACAATGAATGGACACTAG

FIGURE 8C

N29 (SEQ ID NO:35)

ATGGAAAACAGATGGCAGGTGATGATTGTGTGGCAGGTAGACAGGATGAGGATTAGAACA
TGGAACAGTTTGTAGTAAAATACCATATGTATAGATCAAAGAAAGCTAGGGAATGGTTTAAT
AGACATCACTATCACCGTCCTCATCCAAAAGTAAGTTCAGAAGTCCACATCCCCTAGAG
GATGCTAGATTGGAAATAACAACATTTTGGGGTCTGCATACAGGAGAAAGAGACTGGCAT
TTGGGTGAGGGAGTCTCCATAGAATGGAGGAAAAGGAGATATAGCACACAAGTAGACCCT
GATCTAGCAGACCAACTAATTCATCTGTATTATTTTGATTGTTTTTCAGAATCTGCTATA
AGAAAAGCCATATTAGGACACAGAGTTAGTCCTAGGTGTGAATATCGAGCAGGACATAGC
AAGGTAGGATCACTACAGTACTTGGCAATAGCAGCATTAAATAACACCAAAAAAGATAAAG
CCACCTTTGCCGAGTGTGAGGAACTGACAGAGGATAGATGGAACAAGCCCCAGAAGACC
AAGGGCCACAGAGGGAGCCATACAATGAATGGACACTAG

N30 (SEQ ID NO:36)

ATGGAAAACAGATGGCAGGTGATGATTGTGTGGCAGGTAGACAGGATGAGGATTAGAACA
TGGAACAGTTTGTAGTAAAATACCATATGTATTGATCAAAGAAAAGAAAGAAAGGGAATGGT
TTTATAGACATCACTATCACAGCCCTCATCCAGAACAAGTTCACAGCCCACATCCCCTGC
TAGTGGATGGTAGATTGGAAAAATAGCAGTTTGGAGTCTGGATACAGGAGATGGCGTCT
GGCACAGGGGGCATCGAGTCTCCATAGAATGGAGGAAAAGGAGATATAGCACACAAGTAG
ACCCTGATCTAGTAGACCAACTAATTCATCTGTATTATTTTGATTGTTTTTCAGAATCTG
CTATAAGAAAAGCCATATTAGGACACAGAGTTAGTCCTAGGTGTGAATATCGAGCAGGAC
ATAGCAAGGTAGGATCACTACAGTACTTGGCAATAGCAGCATTAAATAACACCAAAAAAGA
TAAAGCCACCTTTGCCGAGTGTGAGGAACTGACAGAGGATAGATGGAACAAGCCCCAGA
AGACCAAGGGCCACAGAGGGAGCCATACAATGAATGGACACTAG

T3 (SEQ ID NO:37)

ATGGAAAACAGATGGCAGGTGATGATTGTGTGGCAAGTAGACAGGATGAGGATTAGAACA
TGGAACAGTTTGTAGTAAAACACCATATGTATGTTTTCAAAGAAAGCTAAGAAATGGTTTTAT
AGACATCACTATGAAAGCCCTCATCCAAAAGTAAGTTCACAGCCCACATCCCCTAGGG
GATGGTAGATTGGAGAAAACAGCAGTTTGGAGTCTGCAGGCAGGAGATGGAGTCTGGCAC
AGGGGGCATCCAGTCTCCATAGAATGGAGGAAAAGGAGATATAGCACACAAGTAGACCCT
GATTTGGTAGACCAACTAATTCATCTGTATTATTTTGATTGTTTTTCAGAATCTGCTATA
AGAAAAGCCATATTAGGATATAGAGTTAGTCCTAGGTGTGAATACCAAGCAGGACATAAT
AAGGTAGGATCTCTACAGTACTTGGCACTAGCAGCATTAAATAACACCAAGAAGATAAAG
CCACCTTTGCCTAGTGTAGGAACTGACAGAGGATAGATGGAACAAGCCCCAGAAGACC
AAGGGCCACAGAGGGAGCCATACAATGAATGGACACTAG

T4 (SEQ ID NO:38)

ATGGAAAACAGATGGCAGGTGATGATTGTGTGGCAAGTAGACAGGATGAGGATTAGAGCA
TGGAACAGTTTGTAGTAAAACACCATATGTATGTTTTCAAAGAAAGCTAGGACATGGTTTTCT
AGACATCACTATGGAAGCCCTCATCCAAAAGTATGTTTCAAGAGTACACATCCCCTAGGG
GATGCTAGATTGGTGATAACAACATATTGGAGTCTGCATGCAGGAGAATGAGACTGGCAT
GTGGGTGAGAGAGTCTCCATAGAATGGAGGAAAAGGAGATATAGCACACAAGTAGACCCT
GACTTGGCAGACCAACTAATTCATCTGTATTATTTTGATTGTTTTTCAGAATCTGCTATA
AGAAAAGCCATATTAGGATATAGAGTTAGTCCTAGGTGTGAATACCAAGCAGGACATAAT
AAGGTAGGATCTCTACAGTACTTGGCACTAGCAGCATTAAATAACACCAAGAAGATAAAG
CCACCTTTGCCTAGTGTGAGGAACTGACAGAGGATAGATGGAACAAGCCCCAGAAGACC
AAGGGCCACAGAGGGAGCCATACAATGAATGGACACTAG

FIGURE 8D

T35 (SEQ ID NO:39)

ATGGAAAACAGATGGCAGGTGATGATTGTGTGGCAAGTAGACAGGATGAGGATTAGAGCA
TGGAACAGTTTATGTA AAAACACCATATTTATTTTCAAAGAAAGCTAAGAAATGGTTTTAT
AGACATCACTATGAAAGCCCTCATCCAAACGTAAGTTCAGAAGTACACATCCCCTAGGG
GATGCTAGATTGGTGACAACACCATATTGGGGTCTGCATGGAGGAGAAAGAGACTGGTAT
CTGGCTCAGGGAGTCTCCATAGAATGGAGGAAAAGGAGATATAGCACACAAGTAGACCCT
GACCTGGCAGACCAACTAATTCATCTGTATTATTTTGATTGTTTTTCAGAATCTGCTATA
AGAAAAGCCATATTAGGATATAGAGTTAGTCCTAGGTGTGAATACCAAGCAGGACATAAT
AAGGTAGGATCTCTACAGTACTTGGCACTAGCAGCATTAAATAACACCAAAGAAGATAAAG
CCACCTTTGCCTAGTGTGAGGAAACTGACAGAGGATAGATGGAACAAGCCCCAGAAGACC
AAGGGCCACAGAGGGAGCCATACAATGAATGGACACTAG

T37 (SEQ ID NO:40)

ATGGAAAACAGATGGGAGGTGATGATTGTGTGGGAAGTAGACAGGATGAGGATTAGAGCA
TGGAACAGTTTATGTA AAAACACCATATGTATGTTTTCAAAGAAAGCTAAGAAATGGTTTTAT
AGACATCACTATGAAAGCCCTCATCCAAAAGTAAGTTCAGAAGTACACATCCCCTAGGG
GATGCTAGATTGGTGATAACAACATATTGGGGTCTGCATGCAGGAGAAAGAGACTGGCAT
TTGGGTCTAGGGAGTCTCCATAGAATGGAGGAAAAGGAGATATAGCACACAAGTAGACCCT
GACCTGGCAGACCAACTAATTCATCTGTATTATTTTGATTGTTTTTCAGAATCTGCTATA
AGAAAAGCCATATTAGGATATAGAGTTAGTCCTAGGTGTGAATACCAAGCAGGACATAAT
AAGGTAGGATCTCTACAGTACTTGGCACTAGCAGCATTAAATAACACCAAAGAAGATAAAG
CCACCTTTGCCTAGTGTGAGGAAACTGACAGAGGATAGATGGAACAAGCCCCAGAAGACC
AAGGGCCACAGAGGGAGCCATACAATGAATGGACACTAG

T38 (SEQ ID NO:41)

ATGGAAAACAGATGGCAGGTGATGATTGTGTGGCAAGTAGACAGGATGAGGATTAGAGCA
TGGAACAGTTTATGTA AAAACACCATATGTATGTTTTCAAAGAACGCTAAGAAATGGTTTTAT
CGACATCACTATGACAGCCCTCATCCAGTCCAAAGTTCAACAGCCCATCCCGCTAGGG
GATGGTAGATTGCAGAAAATAGCATTTTGGAGTCTGGATGCAGGAGAAAGAGACTGGCAT
TTGGGTCTAGGGAGTCTCCATAGAATGGAGGAAAAGGAGATATAGCACACAAGTAGACCCT
GACCTGGCAGACCAACTAATTCATCTGTATTATTTTGATTGTTTTTCAGAATCTGCTATA
AGAAAAGCCATATTAGGATATAGAGTTAGTCCTAGGTGTGAATACCAAGCAGGACATAAT
AAGGTAGGATCTCTACAGTACTTGGCACTAGCAGCATTAAATAACACCAAAGAAGATAAAG
CCACCTTTGCCTAGTGTGAGGAAACTGACAGAGGATAGATGGAACAAGCCCCAGAAGACC
AAGGGCCACAGAGGGAGGCATACAATGAATGGACACTAG

T39 (SEQ ID NO:42)

ATGGAAAACAGATGGCAGGTGATGATTGTGTGGCAAGTAGACAGGATGAGGATTAGAGCA
TGGAACAGTTTATGTA AAAACACCATATGTATGTTTTCAAAGAAAGCTAAGAAATGGTTTTAT
AGACATCACTATGACAGCCCTCATCCAAAAGTAAGTTCAGAAGTACACATCCCCTAGGG
GATGCTAGATTGGAGATAACAACATATTGGGGTCTGCATGCAGGAGAAAGAGACTGGCAT
TTGGGTCTAGGGAGTCTCCATAGAATGGAGGAAAAGGAGATATAGCACACACGTAGACCCT
GACCTGGCAGACCAACTAATTCATCTGTATTATTTTGATTGTTTTTCAGAATCTGCTATA
AGAAAAGCCATATTAGGATATAGAGTTAGTCCTAGGTGTGAATACCAAGCAGGACATAAT
AAGGTAGGATCTCTACAGTACTTGGCACTAGCAGCATTAAATAACACCAAAGAAGATAAAG
CCACCTTTGCCTAGTGTGAGGAAACTGACAGAGGATAGATGGAACAAGCCCCAGAAGACC
AAGGGCCACAGAGGGAGCCATACAATGAATGGACACTAG

FIGURE 8E

T40 (SEQ ID NO:43)

ATGGAAAACAGATGGCAGGTGATGATTGTGTGGCAAGTAGACAGGATGACGATTAGAGCA
TGGAACAGTTT TAGTAAAACACCATATGTATGTTTCAAAGAAAGCTAAGAAATGGTTTTAT
AGACATCACTATGAAAGCCCTCATCCAAAAGTAAGTTCAGAAGTACACATCCCCTAGGG
GATGCTAGATTGGTGATAACAACATATTGGGGTCTGCATGCAGGAGAAAGAGACTGGCAT
TTGGGT CAGGGAGTCTCCATAGAATGGAGGAAAAGGAGATATAGCACACAAGTAGACCCT
GACTTGGCAGACCAACTAACTCATCTGTATTATTTTGATTGTTTTTCAGAATCTGCTATA
AGAAAAGCCATATTAGGATATAGAGTTAGTCCTAGGTGTGAATACCAAGCAGGACATAAT
AAGGTAGGATCTCTACAGTACTTGGCACTAGCAGCATTAAATAACACCAAAGAAGATAAAG
CCACCTTTGCCTAGTGTGAGGAACTGACAGAGGATAGATGGAACAAGCCCCAGAAGACC
AAGGGCCACAGAGGGAGCCATACAATGAATGGACACTAG

T42 (SEQ ID NO:44)

ATGGAAAACAGATGGCAGGTGATGATTGTGTGGCAAGTAGACAGGATGAGGATTAGAGCA
TGGAACAGTTT TAGTAAAACACCATATGTATGTTTCAAAGAAAGCTAAGAAATGGTTTTAT
AGACATCACTATGACCGCCCTCATCCAAAAGTAAGTTCAGAAGTCCACATCCCCTAGGG
GATGCTAGATTGGAGATAACAACATTTTGGGGTCTGCATGCAGGAGAAAGAGACTGGCAT
TTGGGT CAGCGAGTCTCCATAGAATGGAGGAAAAGGAGATATAGCACACAAGTAGACCCT
GACTTGGCAGACCAACTAACTCATCTGTATTATTTTGATTGTTTTTCAGAATCTGCTATA
AGAAAAGCCATATTAGGATATAGAGTTAGTCCTAGGTGTGAATACCAAGCAGGACATAAT
AAGGTAGGATCTCTACAGTACTTGGCACTAGCAGCATTAAATAACACCAAAGAAGATAAAG
CCACCTTTGCCTAGTGTGAGGAACTGACAGAGGATAGATGGAACAAGCCCCAGAAGACC
AAGGGCACAGAGGGAGCCATACAATGAATGGACACTAG

T43 (SEQ ID NO:45)

ATGGAAAACAGATGGCAGGTGATGATTGTGTGGCAAGTAGACAGGATGAGGATTAGAGCA
TGGAACAGTTT TAGTAAAACACCATATGTTTGTTCCAAAGAAAGCTAAGAAATGGTTTTAT
AGACATCACTATGAAAGCCCTCATCCAAAAGTAAGTTCAGAAGTACACATCCCCTAGGG
GATGCTAGATTGGAGATAACAACATTTTGGGGTCTGCATGCAGGAGAAAGAGACTGGCAT
TTGGGT CAGGGAGTCTCCATAGAATGGAGGAAAAGGAGATATAGCACACAAGTAGACCCT
GACCTGGCAGACCAACTAATTCATCTGTATTATTTTGGTTGTTTTTCAGAATCTGCTATA
AGAAAAGCCATATTAGGATATAGAGTTAGTCCTAGGTGTGAATACCAAGCAGGACATAAT
AAGGTAGGATCTCTACAGTACTTGGCACTAGCAGCATTAAATAACACCAAAGAAGATAAAG
CCACCTTTGCCTAGTGTGAGGAACTGACAGAGGATAGATGGAACAAGCCCCAGAAGACC
AAGGGCCACAGAGGGAGCCATACAATGAATGGACACTAG

T44 (SEQ ID NO:46)

ATGGAAAACAGATGGCAGGTGATGATTGTGTGGCAAGTAGACAGGATGAGGATTAGAGCA
TGGAACAGTTT TAGTAAAACACCATATGTATGTTTCAAAGAAAGCTAAGAAATGGTTTTAT
AGACATCACTATGAAAGCCCTCATCCACAAGTAAGTTCAGAAGTACACATCCCCTAGGG
GATGCTAGATTGGAGATAACAACATATTGGGGTCTGCATGCAGGAGAAAGAGACTGGCAT
TTGGGT CAGGGAGTCTCCATAGAATGGAGGAAAAGGAGATATAGCACACAAGTAGACCCT
GACCTGGCAGACCAACTAATTCATCTGTATTATTTTGATTGTTTTTCAGAATCTGCTATA
AGAAAAGCCATATTAGGATATAGAGTTAGTCCTAGGTGTGAATACCAAGCAGGACATAAT
AAGGTAGGATCTCTACAGTACTTGGCACTAGCAGCATTAAATAACACCAAAGAAGATAAAG
CCACCTTTGCCTAGTGTGAGGAACTGACAGAGGATAGATGGAACAAGCCCCAGAAGACC
AAGGGCCACAGAGGGAGCCATACAATGAATGGACACTAG